

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A catalyst containing at least one group VIII element and at least molybdenum and/or tungsten, said elements being present at least in part in the catalyst in the dry state in the form of at least one heteropolyanion having a with structural formula $M_xAB_6O_{24}H_6C_{(3-2x)}$, tH₂O (I); $M_xAB_6O_{24}H_6C_{(4-2x)}$, tH₂O (I'); $M_xA_2B_{10}O_{38}H_4C_{(6-2x)}$, tH₂O (I''); $M_xA_2B_{10}O_{38}H_4C_{(8-2x)}$, tH₂O (I'''); or $M_xA_2B_{10}O_{38}H_4C_{(7-2x)}$, tH₂O (I'''); wherein in which M is cobalt, and/or nickel, and/or iron, and/or copper, and/or zinc, or mixtures thereof, A is an one element from group VIII of the periodic table for formulae I and I' or one or two 1 or 2 elements from group VII of the periodic table for formulae I'', I''' and I'''', B is molybdenum and/or tungsten and C is an H⁺ ion and/or a (NR₁R₂R₃R₄)⁺ type ammonium ion, in which R₁, R₂, R₃ and R₄, which may be identical or different, correspond either to a hydrogen atom or to an alkyl group, cesium, and/or caesium and/or potassium, and/or sodium or mixtures thereof, t is a number between 0 and 15 and x is takes a value in the range 0 to 3/2 in (I), a value in the range 0 to 2 in (I'), a value in the range 0 to 3 in (I''), a value in the range 0 to 4 in (I''') and a value in the range 0 to 7/2 in (I''') and wherein in which the number of bonds connecting the group VIII element or elements with the molybdenum and/or tungsten having with a length of 3.6 angstroms or less is strictly greater than 2.
2. (Currently Amended) A catalyst according to claim 1, wherein in which more than 2 bonds connecting the group VIII element or elements with the molybdenum and/or tungsten have a length of 3.5 angstroms or less in the catalyst in the dry state.
3. (Currently Amended) A catalyst according to claim 1, wherein in which element A is selected from the group consisting of nickel, cobalt and iron.

4. (Previously Presented) A catalyst according to claim 1 comprising, in the dry state, 0.01% to 100% by weight with respect to the total catalyst weight of at least one heteropolyanion with a structural formula selected from the group consisting of formulae I, I', I'', I''' and I'''.
5. (Previously Presented) A catalyst according to claim 1, comprising at least one porous mineral matrix.
6. (Currently Amended) A catalyst according to claim 5, further comprising a zeolitic molecular sieve.
7. (Previously Presented) A catalyst according to claim 5 comprising, in the dry state, as a % by weight with respect to the total catalyst weight, 1% to 99.9% of at least one porous mineral matrix, 0.1% to 99% by weight of at least one heteropolyanion having a structural formula selected from the group consisting of formulae I, I', I'', I''' and I'''' and 0 to 80% by weight of at least one zeolitic molecular sieve.
8. (Currently Amended) A catalyst according to claim 1, wherein in which the heteropolyanion has a structural formula selected from the group consisting of $\text{Co}_2\text{Mo}_{10}\text{O}_{38}\text{H}_4\text{Co}_3$, $\text{CoMo}_6\text{O}_{24}\text{H}_6\text{Ni}_{3/2}$, $\text{CoMo}_6\text{O}_{24}\text{H}_6\text{Co}_2$, $\text{Co}_2\text{Mo}_{10}\text{O}_{38}\text{H}_4\text{Ni}_3$, $\text{Ni}_2\text{Mo}_{10}\text{O}_{38}\text{H}_4\text{Co}_4$, $\text{NiMo}_6\text{O}_{24}\text{H}_6\text{Co}_2$, $\text{CoMo}_6\text{O}_{24}\text{H}_6\text{Ni}_2$, $\text{CoMo}_6\text{O}_{24}\text{H}_6\text{Co}_{3/2}$, and $\text{NiMo}_6\text{O}_{24}\text{H}_6\text{Ni}_2$.
9. (Previously Presented) A catalyst according to claim 1, which has undergone a sulphurization treatment.
10. (Withdrawn) In catalytic processes comprising hydrorefining and/or hydroconverting hydrocarbon feeds, the improvement wherein the catalyst is according to claim 1.

11. (Withdrawn) A process according to claim 10 comprising conducting hydrogenation, hydrodenitrogenation, hydrodeoxygenation, hydrodearomatization, hydrodesulphurization, hydrodemetalization, hydroisomerization, hydrodealkylation or dehydrogenation reactions.
12. (Withdrawn) In a catalytic process comprising conducting hydrocracking of hydrocarbon feeds, the improvement wherein the catalyst is according to claim 1.
13. (Withdrawn) A process according to claim 10, in which said hydrocarbon feeds contain at least one heteroatom.
14. (Currently Amended) A catalyst according to claim 8, wherein the heteropolyanion is $\text{Co}_2\text{Mo}_{10}\text{O}_{38}\text{H}_4\text{Co}_3$, $\text{CoMo}_6\text{O}_{24}\text{H}_6\text{Ni}_{32}$, or and $\text{NiMo}_6\text{O}_{24}\text{H}_6\text{Ni}_2$.